

Asheville City Hall Lighting

Basement

Basement : Option 1 New Fixture

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
A	4	US made low profile, surface mounted direct/indirect fluorescent lighting. Equipped with microperforated baffle with acrylic diffuser inlay. Baffle is composed of cold rolled steel with 5/64" (Maybe replaced with type B)	Optimum or equal	<u>DI-232-UV-SI-841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Surface Mount	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement:Breakroom
B	6	US made low profile, suspended direct/indirect fluorescent lighting. Equipped with microperforated baffle with acrylic diffuser inlay. Baffle is composed of cold rolled steel with 5/64"	Optimum or equal	<u>DI-232-UV-HI-841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Suspended	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Storage / Mail / Office (Mail, Break, Storage)
C	24	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 24 2 32 UV 1 HI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Hallway, Elevator Mechanical Room, Shop Office
D	3	US made high efficiency fluorescent lay-in 2X2. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 22 2 17 UV 1 HI W 841</u>	F17T8/841 (Ini. Lumens 1700 Lm, Life 24, 000hrs)	2 ea.	Recessed	CEE1 Qualified Electronic Program Start High Ballast Factor.	120/277	Basement: Parking Garage, Elevator hallway
E	3	US made 8' Parking Garage Fixture (Tandem, 2 lamp cross section). Fiberglass body with continuous poured, closed cell gasket. Optically clear lens and wide spread reflector throws the light into the corner boosting minimum levels while cutting power. Lens is Impact resistant. IP 67, UL Listed / Wet Locations.	ILP, Metalux or equal	<u>WTCL8 4T8 UR</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	4 ea.	Surface Mount	CEE1 Qualified Electronic Programmed Start Normal Ballast Factor.	120/277	Basement: Parking Garage
E'	3	US made 8' Parking Garage Fixture (Tandem, 2 lamp cross section). Fiberglass body with continuous poured, closed cell gasket. Optically clear lens and wide spread reflector throws the light into the corner boosting minimum levels while cutting power. Lens is impact resistant. IP 67, UL Listed / Wet Locations. Equipped with factory installed occupancy sensor.	ILP, Metalux or equal	<u>WTCL8 4T8 UR OS</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	4 ea.	Surface Mount	CEE1 Qualified Electronic Programmed Start Normal Ballast Factor.	120/277	Basement: Parking Garage
F	25	US made 2-lamp 8' efficiency strip with 91% white reflector. 23 GA Die formed steel housing. Tandem.	ILP, Metalux or equal	<u>1084/W/T8/H</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	4 ea.	Suspended	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Fire Pump Room, Electrical Room, Boiler Room, Maintenance Shop, Old Chiller Room

G	9	US made 2-lamp 4' efficiency strip with 91% white reflector. 23 GA Die formed steel housing.	ILP, Metalux or equal	<u>1084/W/T8/H</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Suspended	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Fire Pump Room, Electrical Room, Boiler Room, Maintenance Shop
H	9	US made low profile, direct/indirect fluorescent lighting. Equipped with microperforated baffle with acrylic diffuser inlay. Baffle is composed of cold rolled steel with 5/64"	Optimum or equal	<u>DI-332-UV-LUTRON(CSB)-841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	3 ea.	Suspended	EC3 T832 C U 310 (Lutron) or equal; Continuous, flicker-free dimming from 100% to 10%, 3-wire line voltage control for consistent fixture-to-fixture dimming, Total Harmonic Distortion (THD) less than 20%, Ballast factor of 1.0)	120/277	Basement: Print Shop (TV Studio)
LC-1	9	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive Infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount	NA	NA	Basement-Breakroom (1) Storage / Mail / Office (Mail, Break, Storage) (2) Hallway (2), Hallway (2), Print Shop (TV Studio) (2)
LC-2	7	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			Basement-Breakroom (1) Storage / Mail / Office (Mail, Break, Storage) (2) Hallway (2), Hallway (2)
LC-3	2	Single-pole 6A 3-wire fluorescent dimmer. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-F6AN-DV-WH	NA	NA	Wall Switch			Basement: Print Shop (TV Studio) (2)

LCACC1	1	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			
LCACC2	4	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			

Asheville City Hall Lighting

Basement : Option 2 Retrofit

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
A	4	US made low profile, direct/indirect fluorescent lighting fixture. Equipped with microperforated baffle with acrylic diffuser inlay. (Maybe replaced with type B)	Optimum or equal	DI-232-UV-SI-841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Surface Mount	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement:Breakroom
B	6	US made low profile, direct/indirect fluorescent lighting fixture. Equipped with microperforated baffle with acrylic diffuser inlay.	Optimum or equal	DI-232-UV-HI-841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Suspended	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Storage / Mail / Office (Mail, Break, Storage)
C	24	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	WO2402-T832-LSS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Hallway
C-Lens	24	D125 0.125" Prismatic Lens	Optimum or equal							
D	3	US made high efficiency fluorescent lay-in 2X2. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 22 2 17 UV 1 HI W 841	F17T8/841 (Ini. Lumens 1700 Lm, Life 24, 000hrs)	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement:Parking Garage, Elevator hallway
E	3	US made 8' Parking Garage Fixture (Tandem, 2 lamp cross section). Fiberglass body with continuous poured, closed cell gasket. Optically clear lens and wide spread reflector throws the light into the corner boosting minimum levels while cutting power. Lens is impact resistant. IP 67, UL Listed / Wet Locations.	ILP, Metalux or equal	WTCL8 4T8 UR	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	4 ea.	Surface Mount	CEE1 Qualified Electronic Programmed Start Normal Ballast Factor.	120/277	Basement: Parking Garage
E'	3	US made 8' Parking Garage Fixture (Tandem, 2 lamp cross section). Fiberglass body with continuous poured, closed cell gasket. Optically clear lens and wide spread reflector throws the light into the corner boosting minimum levels while cutting power. Lens is impact resistant. IP 67, UL Listed / Wet Locations. Equipped with factory installed occupancy sensor.	ILP, Metalux or equal	WTCL8 4T8 UR OS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	4 ea.	Surface Mount	CEE1 Qualified Electronic Programmed Start Normal Ballast Factor.	120/277	Basement: Parking Garage
F	25	US made 2-lamp 8' efficiency strip with 91% white reflector. 23 GA Die formed steel housing. Tandem.	ILP, Metalux or equal	1084/W/T8/H	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	4 ea.	Suspended	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Fire Pump Room, Electrical Room, Boiler Room, Maintenance Shop; Old Chiller Room

G	9	US made 2-lamp 4' efficiency strip with 91% white reflector. 23 GA Die formed steel housing.	ILP, Metalux or equal	1084/W/T8/H	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Suspended	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Basement: Fire Pump Room, Electrical Room, Boiler Room, Maintenance Shop
H	9	US made low profile, direct/indirect fluorescent lighting. Equipped with microperforated baffle with acrylic diffuser inlay. Baffle is composed of cold rolled steel with 5/64" 3-wire 10% dimming ballast.	Optimum or equal	DI-332-UV-LUTRON(CSB)-841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	3 ea.	Suspended	EC3 T832 G U 310 (Lutron) (Continuous, flicker-free dimming from 100% to 10%, 3-wire line voltage control for consistent fixture to-fixture dimming, Total Harmonic Distortion (THD) less than 20%, Ballast factor of 1.0)	120/277	Basement: Print Shop (TV Studio)
LC-1	9	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			Basement-Breakroom (1) Storage / Mail / Office (Mail, Break, Storage) (2) Hallway (2), Hallway (2), Print Shop (TV Studio) (2)
LC-2	7	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			Basement-Breakroom (1), Storage / Mail / Office (Mail, Break, Storage) (2), Hallway (2), Hallway (2)
LC-3	2	Single-pole 6A 3-wire fluorescent dimmer. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-F6AN-DV-WH	NA	NA	Wall Switch			Basement: Print Shop (TV Studio) (2)

LCACC1	1	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			
LCACC2	4	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			

1 st Floor

1st Floor: Option 1 New Fixture

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
C	8	High efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 24 2 32 UV 1 HI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr : Lobby
I	6	US made low profile, direct/indirect fluorescent lighting. Equipped with microperforated baffle with acrylic diffuser Inlay. Baffle is composed of cold rolled steel with 5/64". 3-wire 10% dimming ballast. (2 4' fixtures connected with a joiner)	Optimum or equal	<u>DI-232-UV-LUTRON(CSB)-841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Suspended	EC3 T832 C U 210 (Lutron) or equal; (Continuous, flicker-free dimming from 100% to 10%, 3-wire line voltage control for consistent fixture-to-fixture dimming, Total Harmonic Distortion (THD) less than 20%, Ballast factor of 1.0)		1st flr: North Conference Room
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 14 2 32 UV1 SI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr: Vault (3), Men's Bathroom (2), women's Bathroom (2)
K	86	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens..	Optimum or equal	<u>OET D23 24 2 32 UV 1 HI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr :100 and 100A, 100C, 102A, 102A, 103, 104, 105,

LC-1	7	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			1st flr : Lobby, North Conference Room, Vault, Men's Bathroom, Women's Bathroom, 100C
LC-2	8	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			1st flr : Lobby (1), Vault (1), Men's Bathroom (1), Women's Bathroom (1), 100C (2)
LC-3	2	Single-pole 6A 3-wire fluorescent dimmer. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-F6AN-DV-WH	NA	NA	Wall Switch			1st flr : North Conference Room (2),
LC-4	14	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			102A, 102B, 103, 104, 105, 106, 106B, 107, 108, 109, 110, 111, 112, 113
LCACC1	4	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			

1st Floor: Option 2 Retrofit

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
C	8	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	<u>WO2402-T832-LSS</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr : Lobby
C-Lens	24	D125 0.125" Prismatic Lens	Optimum or equal							
I	6	US made low profile, direct/indirect fluorescent lighting. Equipped with microperforated baffle with acrylic diffuser inlay. Baffle is composed of cold rolled steel with 5/64". 3-wire 10% dimming ballast. (2 4' fixtures connected with a joiner)	Optimum or equal	<u>DI-232-UV-LUTRON(CSB)-841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Suspended	EC3 T832 C U 210 (Lutron) (Continuous, flicker-free dimming from 100% to 10%, 3-wire line voltage control for consistent fixture-to-fixture dimming, Total Harmonic Distortion (THD) less than 20%, Ballast factor of 1.0)		1st flr: North Conference Room
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 14 2 32 UV1 SL W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr: Vault (3), Men's Bathroom (2), women's Bathroom (2)
K	86	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	<u>WO2402-T832-LSS</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr :100 and 100A (38), 100C (12), 102A (1), 102A (3), 103 (2), 104 (1), 105 (2),
K-Lens	86	D23 lens (23 Pattern High Dispersion, High Efficiency Lens.	Optimum or equal							

LC-1	7	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			1st flr : Lobby (1), North Conference Room (1), Vault (1), Men's Bathroom (1), Women's Bathroom (1), 100C (2)
LC-2	8	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			1st flr : Lobby (1), Vault (1), Men's Bathroom (1), Women's Bathroom (1), 100C (2)
LC-3	2	Single-pole 6A 3-wire fluorescent dimmer. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-F6AN-DV-WH	NA	NA	Wall Switch			1st flr : North Conference Room (2),
LC-4	14	Switch with Occupancy Sensor. Passive Infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			102A, 102B, 103, 104, 105, 106, 106B, 107, 108, 109, 110, 111, 112, 113
LCACC1	4	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			

Mezzanine

Mezzanine: Option 1 New Fixture (Need to add Supply Closet fixture qty 4. Need to add fixtures and switches for Conference Room)

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	76	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens..	Optimum or equal	OET D23 24 2 32 UV 1 HI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	M-2, M-3, M-4, M-8, M-9, M-10, M-12, M-13, M-14, M-14
J	4	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Women's Bathroom, Women's Bathroom Lounge, Men's Bathroom
M		Aesthetic Lensed High-Bay Fluorescent	Optimum or equal	GUN D23 232 UV 1HI E 841 ADV	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F54T5HO		Universal	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	High-Ceiling Office Area
LC-1	4	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			M-8, M-13, M-14, Women's Bathroom
LC-2	6	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			M-8, M-13, M-13, M-14, M-14, Women's Bathroom

LC-4	8	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft)) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			M-2, M-3, M-4, M-9, M-10, M-12, Women's Bathroom Lounge, Men's Bathroom
LCACC1	2	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			M-8, Women's Bathroom
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			M-13, M-14

Mezzanine: Option 2 Retrofit (Need to add Supply Closet fixture qty 4. Need to add fixtures and switches for Conference Room)

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	76	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	WO2402-T832-LSS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	M-2, M-3, M-4, M-8, M-9, M-10, M-12, M-13, M-14, M-14
K-Lens	76	D23 lens (23 Pattern High Dispersion, High Efficiency Lens.	Optimum or equal							
J	4	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Women's Bathroom, Women's Bathroom Lounge, Men's Bathroom
M	18	Aesthetic Lensed High-Bay Fluorescent	Optimum or equal	GUN D23 232 UV 1HI E 841 ADV	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F54T5HO	2 ea.	Universal	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	High-Ceiling Office Area
LC-1	4	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			M-8, M-13, M-14, Women's Bathroom

LC-2	6	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			M-8, M-13, M-13, M-14, M-14, Women's Bathroom
LC-4	8	Switch with Occupancy Sensor. Passive Infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqf)) major motion coverage and 20 ft x 20 ft (400 sqf) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			M-2, M-3, M-4, M-9, M-10, M-12, Women's Bathroom Lounge, Men's Bathroom
LCACC1	2	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			M-8, Women's Bathroom
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			M-13, M-14

2nd Floor

2nd Floor : Option 1 New Fixture

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	84	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens..	Optimum or equal	<u>OET D23 24 2 32 UV 1 HI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	201 (Law Library), 202, 203, 204, 205, 206, 207, 208, 209 (entry area), 214, 215, 217, 218, Hallway
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 14 2 32 UV1 SI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	File Room, Men's Bathroom, Women's Bathroom, Utility Room
DM	2	Dimming Ballast		EC3 T832 C U 210			EC3 T832 C U 310 (Lutron) or equal; Continuous, flicker-free dimming from 100% to 10%, 3-wire line voltage control for consistent fixture-to-fixture dimming, Total Harmonic Distortion (THD) less than 20%, Ballast factor of 1.0)		Mayor's Office	
sockets	8				4 ea.				Mayor's Office	
Lamps	32	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841			4 ea.				City Manager's Office; City Council Conference Room (Cove Lighting)	
Electr.B allast	8	CEE1 Qualified Electronic Programmed Start High Ballast Factor.							City Manager's Office; City Council Conference Room (Cove Lighting)	
sockets	32								City Manager's Office; City Council Conference Room (Cove Lighting)	

LC-1	4	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			209, City Manager's Office, Hallway (2)
LC-2	4	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			209, Hallway (2), City Manager's Office
LC-4	13	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqf)) major motion coverage and 20 ft x 20 ft (400 sqf) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			201 (Law Library), 203, 204, 205, 206, 207, 208, 214, 215, 217, 218, File Room, Utility Room
LC-3	2	Single-pole 6A 3-wire fluorescent dimmer. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	LUTRON	MRF2-F6AN-DV-WH		NA				Mayor's Office, Council Hallway + Kitchen
LC-5	1	Companion Switch to type LC-2 for 3-way switching.	LUTRON	MA-AS-WH		NA				Mayor's Office
LCACC1	15	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			201 (Law Library), 203, 204, 205, 206, 207, 208, 214, 215, 217, 218, File Room, Mayor's Office, City Manager's Office, Utility Room, 214, 215, 217, 218, Hallway(2)
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			209, Hallway

2nd Floor : Option 2 Retrofit

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	84	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	WO2402-T832-LSS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr :100 and 100A (38), 100C (12), 102A (1), 102A (3), 103 (2), 104 (1), 105 (2).
K-Lens	84	D23 lens (23 Pattern High Dispersion, High Efficiency Lens. .	Optimum or equal							
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	File Room, Men's Bathroom, Women's Bathroom, Utility Room
DM sockets	2 8	Dimming Ballast		EC3 T832 C U 210						Mayor's Office
Lamps	12	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841								Mayor's Office
Electr.B allast	8	CEE1 Qualified Electronic Programmed Start High Ballast Factor.								City Manager's Office; City Council Conference Room (Cove Lighting)
sockets	32									City Manager's Office (Cove Lighting)
Lamps	32	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841								City Manager's Office; City Council Conference Room (Cove Lighting)

LC-1	4	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive Infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			209, City Manager's Office, Hallway (2)
LC-2	4	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			209, Hallway (2), City Manager's Office
LC-4	13	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft)) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			201 (Law Library), 203, 204, 205, 206, 207, 208, 214, 215, 217, 218, File Room, Utility Room
LC-3	2	Single-pole 6A 3-wire fluorescent dimmer. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	LUTRON	MRF2-F6AN-DV-WH		NA				Mayor's Office, Council Hallway + Kitchen
LC-5	1	Companion Switch to type LC-2 for 3-way switching.	LUTRON	MA-AS-WH		NA				Mayor's Office

LCACC1	15	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			201 (Law Library), 203, 204, 205, 206, 207, 208, 214, 215, 217, 218, File Room, Mayor's Office, City Manager's Office, Utility Room, 214, 215, 217, 218, Hallway(2)
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			209, Hallway

3rd Floor

3rd Floor : Option 1 New Fixture

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	85	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens..	Optimum or equal	OET D23 24 2 32 UV 1 HI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	300, 302, 304, 305, 306, 307, 308, 309, 310, 312, 319 computer, 322, 323, 324, 325, 326, 328, 329
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Men's Bathroom, Women's Bathroom, Utility Room
L	1	US made 2X2 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 22 417 UV 2SI	F17T8/841 (Ini. Lumens 1700 Lm, Life 24, 000hrs)	4 ea.	Recessed	CEE1 Qualified Electronic Program Start Normal Ballast Factor.	120/277	Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	
LC-1	7	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			302, 304, 319 computer, 322, Men's Bathroom, Women's Bathroom, Utility Room

LC-2	7	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			302, 304, 319 computer, 322, Men's Bathroom, Women's Bathroom, Utility Room
LC-4	14	Switch with Occupancy Sensor. Passive Infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft)) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			305, 306, 307, 308, 309, 310, 312, 323, 324, 325, 326, 328, 329, Storage
LC-5	1	Companion Switch to type LC-2 for 3-way switching.	LUTRON	MA-AS-WH		NA				319 computer
LCACC1	21	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			302, 304, 305, 306, 307, 308, 309, 310, 312, 319 computer, 319 computer, 323, 324, 325, 326, 328, 329, Storage, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	1	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			322

3rd Floor : Option 2 Retrofit

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	85	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	WO2402-T832-LSS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	1st flr :100 and 100A (38), 100C (12), 102A (1), 102A (3), 103 (2), 104 (1), 105 (2),
K-Lens	85	D23 lens (23 Pattern High Dispersion, High Efficiency Lens.	Optimum or equal							
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Men's Bathroom, Women's Bathroom, Utility Room
L	1	US made 2X2 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 22 417 UV 2SI	F17T8/841 (Ini. Lumens 1700 Lm, Life 24, 000hrs)	4 ea.	Recessed	Electronic Program Start Normal Ballast Factor.	120/277	Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	
LC-1	7	Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing). Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			302, 304, 319 computer, 322, Men's Bathroom, Women's Bathroom, Utility Room

LC-2	7	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			302, 304, 319 computer, 322, Men's Bathroom, Women's Bathroom, Utility Room
LC-4	14	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqf)) major motion coverage and 20 ft x 20 ft (400 sqf) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			305, 306, 307, 308, 309, 310, 312, 323, 324, 325, 326, 328, 329, Storage
LC-5	1	Companion Switch to type LC-2 for 3-way switching.	LUTRON	MA-AS-WH		NA				319 computer
LCACC1	21	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			302, 304, 305, 306, 307, 308, 309, 310, 312, 319 computer, 319 computer, 323, 324, 325, 326, 328, 329, Storage, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	1	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			322

4th Floor

4th Floor : Option 1 New Fixture

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	117	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens..	Optimum or equal	<u>OET D23 24 2 32 UV 1 HI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	405, 407, 408, 410, 411, 412, 413, 414, 416, 417, 418, 419, 420, Copy Machine in front of 420, 422, 424, 426, 427, 428, 429, 430, 431, 433, 434, 437, Hallway / Lobby, Conference Room (Finance), Conference Room
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 14 2 32 UV1 SI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Men's Bathroom, Women's Bathroom, Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	

LC-1	3	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			Conference Room, Finance, Conference Room, Parks, Utility Room
LC-2	5	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			Conference Room, Finance, Conference Room, Finance, Conference Room, Parks, Conference Room, Parks, Utility Room
LC-4	27	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			405, 407, 414, 416, 424, 426, 408, 410, 411, 412, 413, 417, 418, 419, 420, Copy Machine in front of 420, 422, 427, 428, 429, 430, 431, 433, 434, 437, Men's Bathroom, Women's Bathroom

LCACC1	27	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			407, 408, 410, 411, 412, 413, 414, 416, 417, 418, 419, 420, Copy Machine in front of 420, 422, 424, 426, 427, 428, 429, 430, 431, 433, 434, 437, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	3	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			405, Conference Room, Finance, Conference Room, Parks

4th Floor : Option 2 Retrofit

Type	Qty	Description	MFG		Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks
K	117	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	<u>WO2402-T832-LSS</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	405, 407, 408, 410, 411, 412, 413, 414, 416, 417, 418, 419, 420, Copy Machine in front of 420, 422, 424, 426, 427, 428, 429, 430, 431, 433, 434, 437, Hallway / Lobby, Conference Room (Finance), Conference Room
K-Lens	117	D23 lens (23 Pattern High Dispersion, High Efficiency Lens.								405, 407, 408, 410, 411, 412, 413, 414, 416, 417, 418, 419, 420, Copy Machine in front of 420, 422, 424, 426, 427, 428, 429, 430, 431, 433, 434, 437, Hallway / Lobby, Conference Room (Finance), Conference Room
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 14 2 32 UV1 SI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Men's Bathroom, Women's Bathroom, Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	

LC-1	3	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			Conference Room, Finance, Conference Room, Parks, Utility Room
LC-2	5	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			Conference Room, Finance, Conference Room, Finance, Conference Room, Parks, Conference Room, Parks, Utility Room
LC-4	27	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft)) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			405, 407, 414, 416, 424, 426, 408, 410, 411, 412, 413, 417, 418, 419, 420, Copy Machine in front of 420, 422, 427, 428, 429, 430, 431, 433, 434, 437, Men's Bathroom, Women's Bathroom

LCACC1	27	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			407, 408, 410, 411, 412, 413, 414, 416, 417, 418, 419, 420, Copy Machine In front of 420, 422, 424, 426, 427, 428, 429, 430, 431, 433, 434, 437, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	3	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			405, Conference Room, Finance, Conference Room, Parks

5th Floor
5th Floor : Option 1 New Fixture

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	112	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens.	Optimum or equal	<u>OET D23 24 2 32 UV 1 HI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	505, 507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 523, 524, 526, 529, 530, 532, 533, Hall/Lobby
K'	12	US made high efficiency fluorescent lay-in 2X4 with 3-wire 10% dimming ballast. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens.	Optimum or equal	<u>OET D23 24 2 32 LUTRON 1 W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	EC3 T832 C U 210 (Lutron) or equal; (Continuous, flicker-free dimming from 100% to 10%, 3-wire line voltage control for consistent fixture to-fixture dimming, Total Harmonic Distortion (THD) less than 20%, Ballast factor of 1.0)	120/277	Conference Room A, B
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	<u>OET D12 14 2 32 UV1 SI W 841</u>	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Men's Bathroom, Women's Bathroom, Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	

LC-1	6	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			523, 533, Conf Room A, Conf Room B, Men's Bathroom, Women's Bathroom
LC-2	8	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			523, 533, Conf Room A, Conf Room A, Conf Room B, Men's Bathroom, Women's Bathroom, Utility Room
LC-4	20	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqf)) major motion coverage and 20 ft x 20 ft (400 sqf) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			505, 507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 524, 526, 529, 530, 532, Women's Bathroom, Utility Room
LC-5	2	Companion Switch to type LC-2 for 3-way switching.	LUTRON	MA-AS-WH		NA				Conf Room A

LCACC1	23	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 523, 524, 526, 529, 530, 532, 533, Conf Room B, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			505, Conf Room A

5th Floor : Option 2 Retrofit

Type	Qty	Description	MFG		Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks
K	113	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	WO2402-T832-LSS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	505, 507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 523, 524, 526, 529, 530, 532, 533, Hall/Lobby
K-Lens	113	D23 lens (23 Pattern High Dispersion, High Efficiency Lens.								505, 507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 523, 524, 526, 529, 530, 532, 533, Hall/Lobby
K'	12	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	WO2402-T832-LSS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	EC3 T832 C U 210 (Lutron) (Continuous, flicker-free dimming from 100% to 10%, 3-wire line voltage control for consistent fixture to-fixture dimming, Total Harmonic Distortion (THD) less than 20%, Ballast factor of 1.0)	120/277	Conference Room A, B
K-Lens	12	D23 lens (23 Pattern High Dispersion, High Efficiency Lens.	Optimum or equal							Conference Room A, B
J	7	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Men's Bathroom, Women's Bathroom, Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	

LC-1	6	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			523, 533, Conf Room A, Conf Room B, Men's Bathroom, Women's Bathroom
LC-2	8	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			523, 533, Conf Room A, Conf Room A, Conf Room B, Men's Bathroom, Women's Bathroom, Utility Room
LC-4	20	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqf)) major motion coverage and 20 ft x 20 ft (400 sqf) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			505, 507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 524, 526, 529, 530, 532, Women's Bathroom, Utility Room
LC-5	2	Companion Switch to type LC-2 for 3-way switching.	LUTRON	MA-AS-WH		NA				Conf Room A

LCACC1	23	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 523, 524, 526, 529, 530, 532, 533, Conf Room B, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	2	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			505, Conf Room A

6th Floor

6th Floor : Option 1 New Fixture (Fixtures, switches and occ sensor to be added for 627)

Type	Qty	Description	MFG	Catalogue #	Lamp Type	n ^o of Lamps	Mounting	Ballast	Volts	Remarks
K	120	US made high efficiency fluorescent lay-in 2X4. Highly reflective White Aluminum Reflector (91%) With 23 Pattern High Dispersion High Efficiency Lens.	Optimum or equal	OET D23 24 2 32 UV 1 HI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	605, 607, 608, 610, 611, 612, 614, 615, 617, 618, 620, 627 (Storage), 628, 630 (Exam Rm), 631 (Exam Rm), 632 (Exam Rm), 634, 636, 637, 638, Hall/Lobby, Conference Room HR, Hearing Assessment, Training Room
D	1	US made high efficiency fluorescent lay-in 2X2. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 22 2 17 UV 1 HI W 841	F17T8/841 (Ini. Lumens 1700 Lm, Life 24, 000hrs)	2 ea.	Recessed	CEE1 Qualified Electronic Program Start High Ballast Factor.	120/277	Training Room
J	8	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SI W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Bathroom (Medical Office), Men's Bathroom, Women's Bathroom, Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	

LC-1	5	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			Conference Room HR, Training Room, Men's Bathroom, Women's Bathroom, Utility Room
LC-2	7	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			Conference Room HR, Conference Room HR, Training Room, Training Room, Men's Bathroom, Women's Bathroom, Utility Room
LC-4	22	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft)) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			605, 607, 608, 610, 611, 612, 614, 615, 617, 618, 620, 628, 630 (Exam Rm), 631 (Exam Rm), 632 (Exam Rm), 634, 636, 637, 638, Bathroom (Medical Office), Hearing Assessment, Closet

LCACC1	24	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			607, 608, 610, 611, 612, 614, 615, 617, 618, 620, 628, 630 (Exam Rm), 631 (Exam Rm), 632 (Exam Rm), 634, 636, 637, 638, Bathroom (Medical Office), Hearing Assessment, Closet, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	3	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			605, Conference Room HR, Training Room

6th Floor : Option 2 Retrofit (Fixtures, switches and occ sensor to be added for 627)

Type	Qty	Description	MFG	Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks	
K	120	US made White Reflector Retrofit Kit for 2X4 Troffer. Uses (2) T8 lamps to maintain existing lighting level produced by (4) T12 lamps. Reflector shall have 97% reflectance. Highly diffuse for evenly dispersed reflection as measured by 60° gloss <8%. UV Stability: 1000 hours UVA (340nm)	WhiteOptics or equal	WO2402-T832-LSS	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/835	2 ea.	Retrofitted in existing fixtures	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	505, 507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 523, 524, 526, 529, 530, 532, 533, Hall/Lobby
K-Lens	120	D23 lens (23 Pattern High Dispersion, High Efficiency Lens.	Optimum or equal							505, 507, 508, 510, 511, 513, 514, 515, 517, 518, 519, 520, 522, 523, 524, 526, 529, 530, 532, 533, Hall/Lobby
D	1	US made high efficiency fluorescent lay-in 2X2. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 22 2 17 UV 1 HI W 841	F17T8/841 (Ini. Lumens 1700 Lm, Life 24, 000hrs)	2 ea.	Recessed	Electronic Program Start High Ballast Factor.	120/277	Training Room
J	8	US made 1X4 2L High efficiency fluorescent lay-in. Highly reflective White Aluminum Reflector (91%) with standard lens (D125).	Optimum or equal	OET D12 14 2 32 UV1 SL W 841	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	Bathroom (Medical Office), Men's Bathroom, Women's Bathroom, Utility Room
O	5	Elevator Hall Downlights	Capri or equal	CM10R-F242-U-H105SL	CFL	2 ea.	Recessed	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	

LC-1	5	<p>Ceiling Mount Wireless Occupancy Sensor. Wireless occupancy sensor which communicates directly to compatible RF receiving devices through use of a radio frequency communications link. 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off (vacancy sensing).</p> <p>Wireless occupancy sensors provide simple and intuitive adjustments available for Timeout, Occupancy/vacancy sensing, and Sensitivity settings. Wireless occupancy sensor utilizes Infrared as its sensing mechanism coupled with signal processing algorithms for sensing fine motions. Signal processing technology detects fine-motion, passive infrared (PIR) signals without the need to change the sensor's sensitivity threshold and prevents false tripping. Up to 3 sensors can be added with each RF dimming or switching device for extended coverage. Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting. 360° coverage ranges from 324 sq. ft to 676 sq. ft. for superior fine motion detection.</p>	Lutron or equal	LRF2-OCRB-P-WH	NA	NA	Ceiling Mount			Conference Room HR, Training Room, Men's Bathroom, Women's Bathroom, Utility Room
LC-2	7	On/Off Switch Single Pole, 8A, Dual Voltage, no neutral required. Receives RF communication from Occupancy/Vacancy sensors to turn the lights on or off.	Lutron or equal	MRF2-8S-DV-WH	NA	NA	Wall Switch			Conference Room HR, Conference Room HR, Training Room, Training Room, Men's Bathroom, Women's Bathroom, Utility Room
LC-4	22	Switch with Occupancy Sensor. Passive infrared motion detection with data processing algorithm for fine motion detection. 180° sensor field-of-view. Up to 30 ft x 30 ft (900 sqft) major motion coverage and 20 ft x 20 ft (400 sqft) minor motion coverage.	Lutron or equal	MS-XXXX-DV-WH	NA	NA	Wall Switch			605, 607, 608, 610, 611, 612, 614, 615, 617, 618, 620, 628, 630 (Exam Rm), 631 (Exam Rm), 632 (Exam Rm), 634, 636, 637, 638, Bathroom (Medical Office), Hearing Assessment, Closet

LCACC1	24	Single-gang wallplate	Lutron or equal	CW-1-WH	NA	NA	Wall Switch			607, 608, 610, 611, 612, 614, 615, 617, 618, 620, 628, 630 (Exam Rm), 631 (Exam Rm), 632 (Exam Rm), 634, 636, 637, 638, Bathroom (Medical Office), Hearing Assessment, Closet, Men's Bathroom, Women's Bathroom, Utility Room
LCACC2	3	Two-gang wallplate	Lutron or equal	CW-2-WH	NA	NA	Wall Switch			605, Conference Room HR, Training Room

Asheville City Hall Lighting:Package 1 and Package 2 Stairwells and Exit Signs

Type	Qty	Description	MFG		Lamp Type	# of Lamps	Mounting	Ballast	Volts	Remarks
N	27	Stairwell Fixture with Occupancy Sensor	Optimum or equal	SVL DSW 2 32	CEE1 Qualified (>3100 Ini. Lumens, life > 24,000 hrs CRI >80) F32T8/841		Universal	CEE1 Qualified Electronic Programmed Start High Ballast Factor.	120/277	
EX	40	LED Exit Sign With Battery Back-Up ; one-sided	Elite or equal	ELX-603-R-W	LED		Universal		120/277	
EX	9	LED Exit Sign With Battery Back-Up ; two-sided	Elite or equal	ELX-603-R-W	LED		Universal		120/277	